



NANOENGINEERED BIOPHOTONIC HYBRID DEVICE

LaBelle et al.

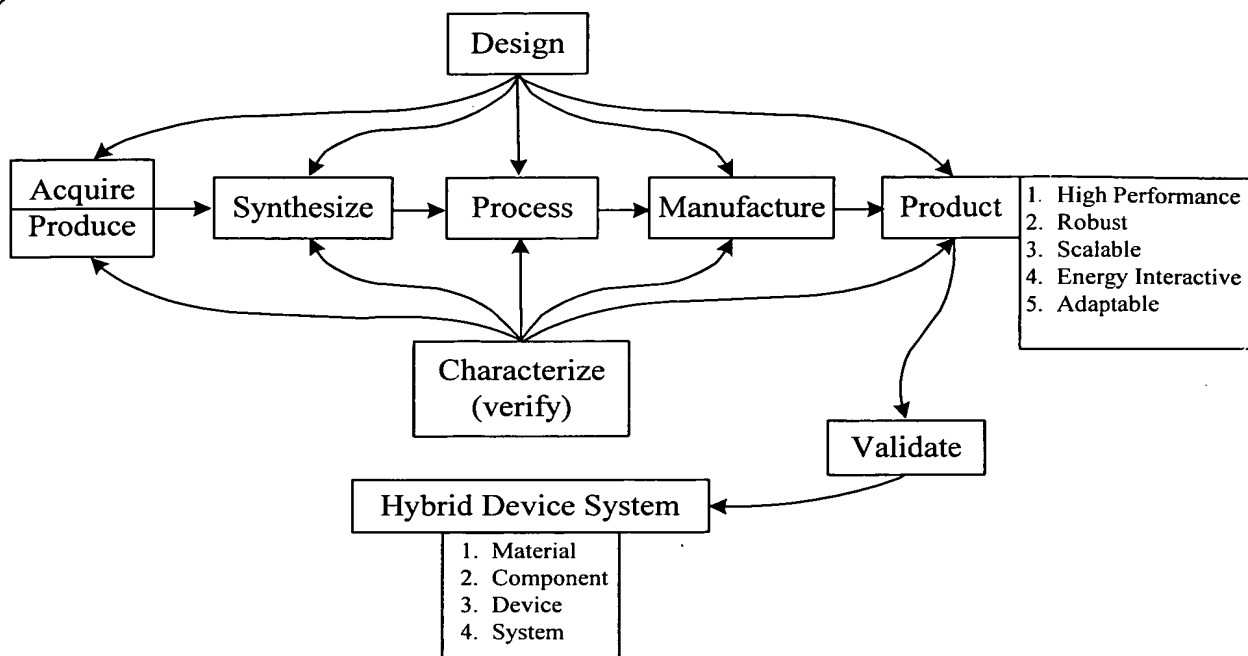


Fig. 1

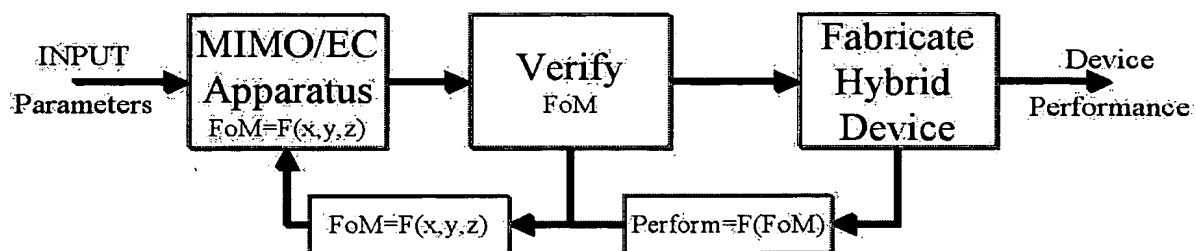


Fig. 2

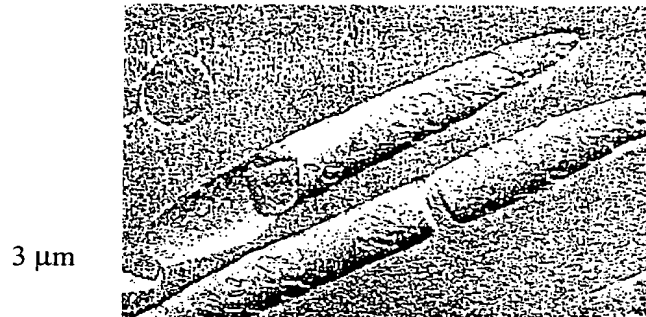


Fig. 3

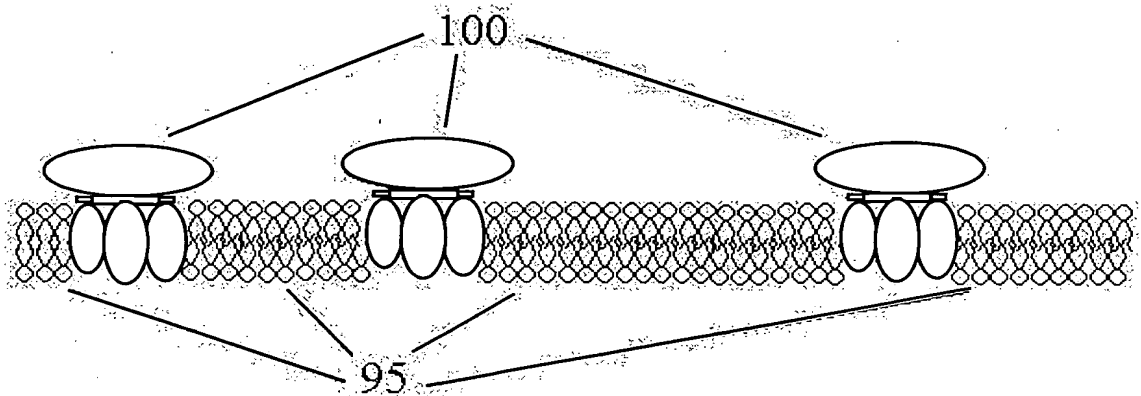
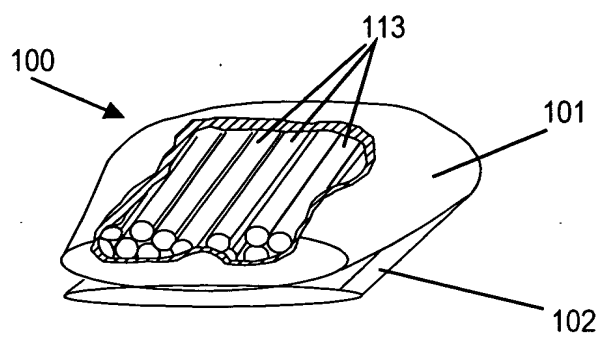
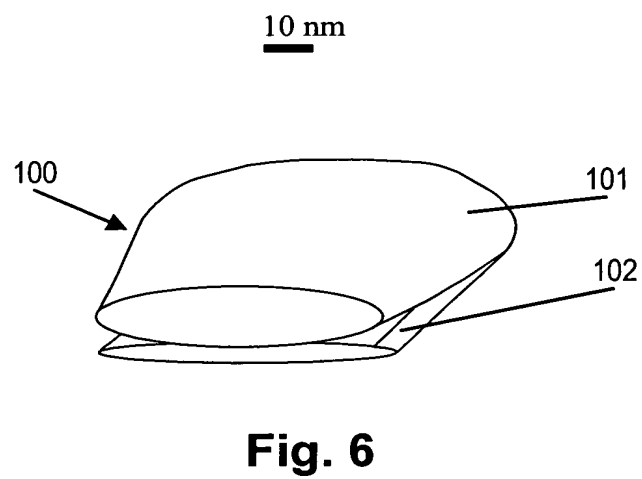
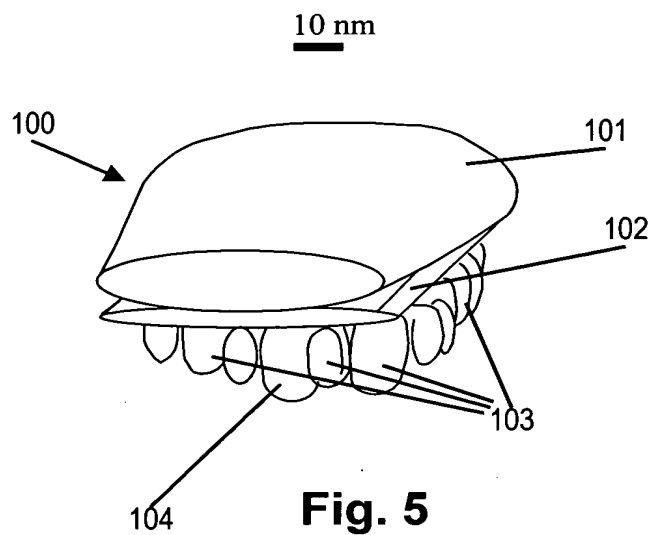


Fig. 4



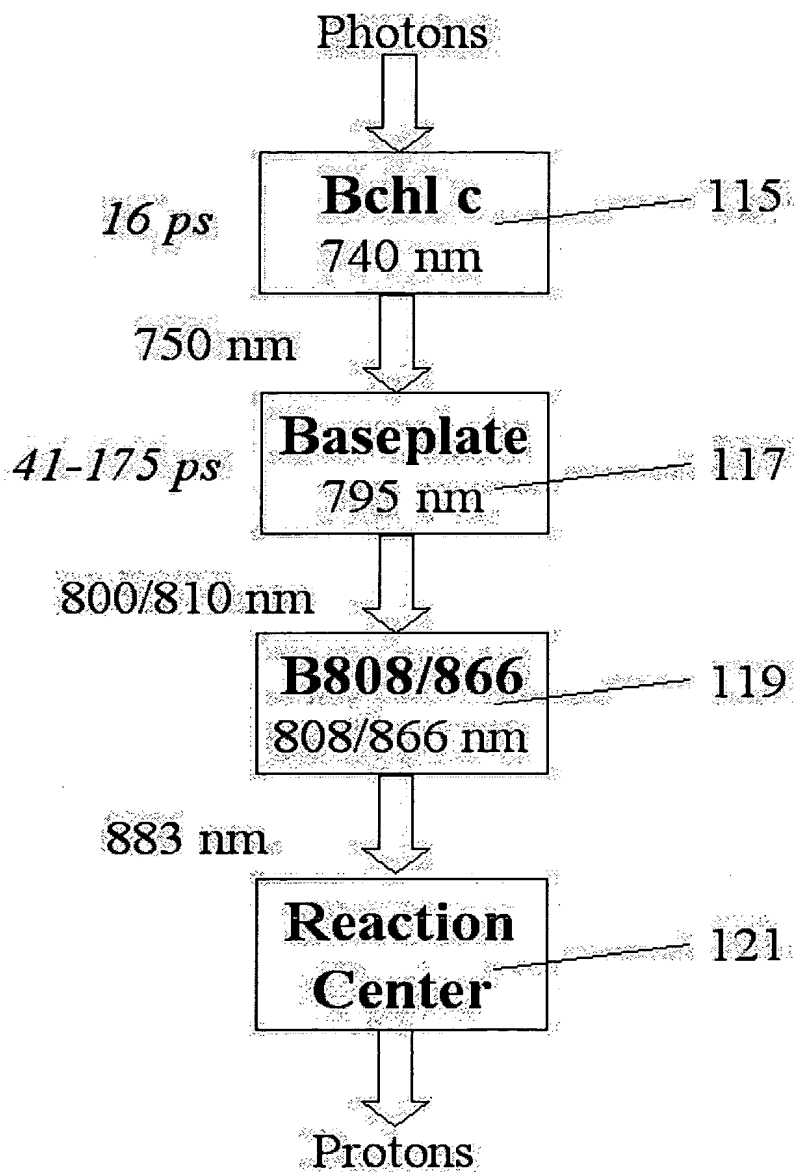


Fig. 8

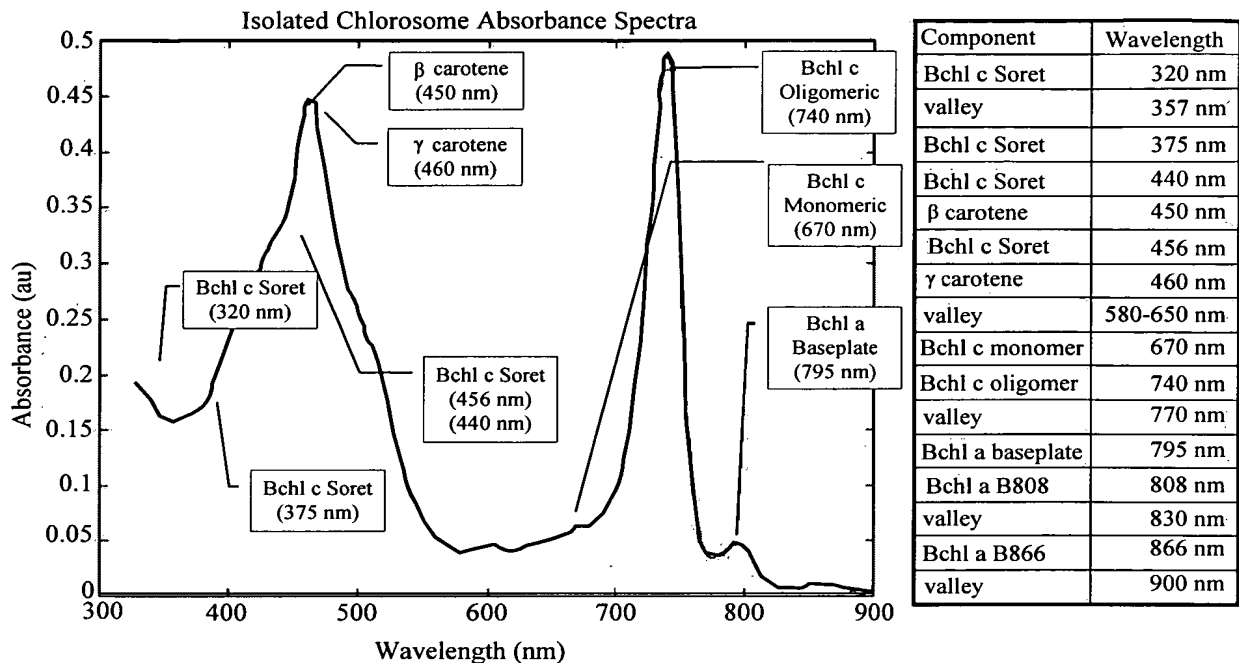


Fig. 9

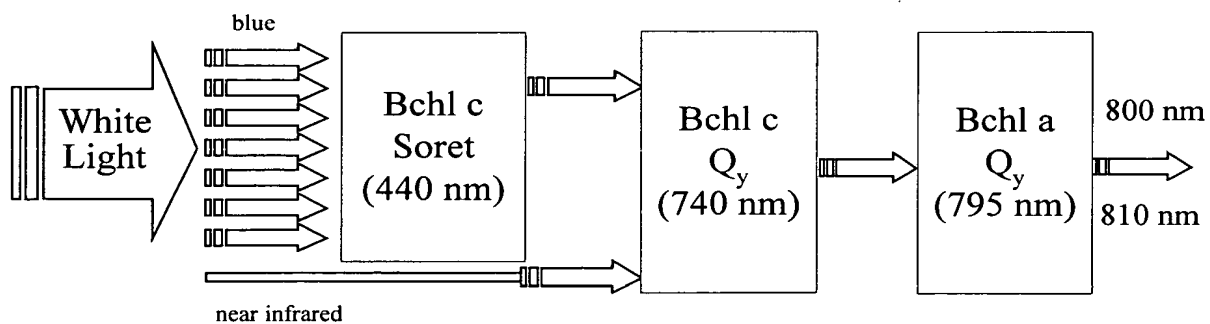


Fig. 10



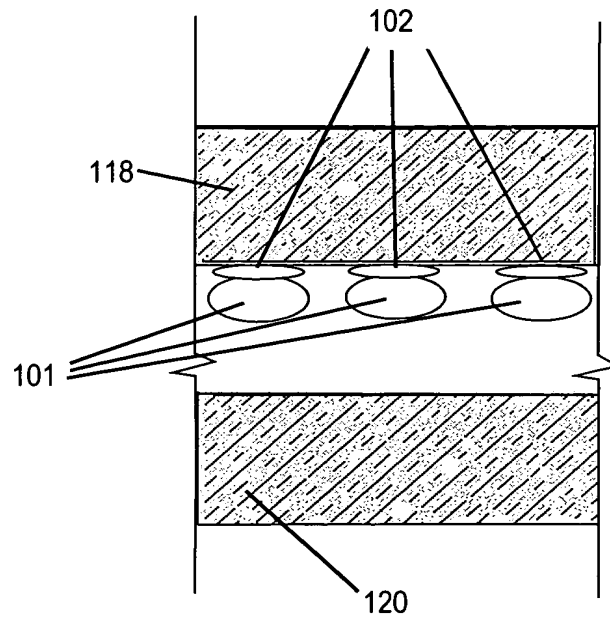


Fig. 12

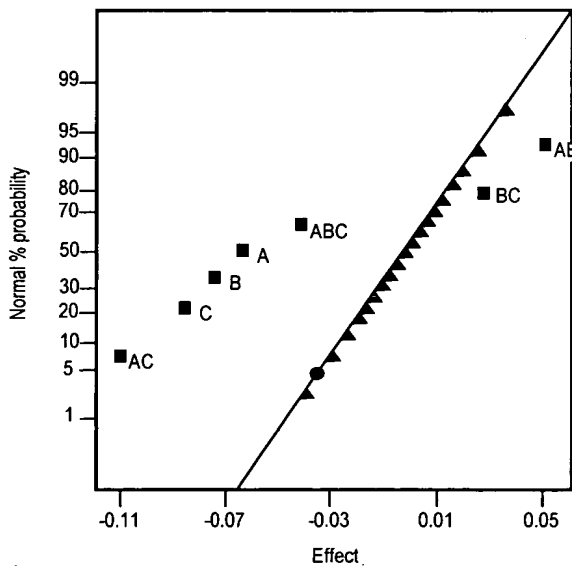


Fig. 13a

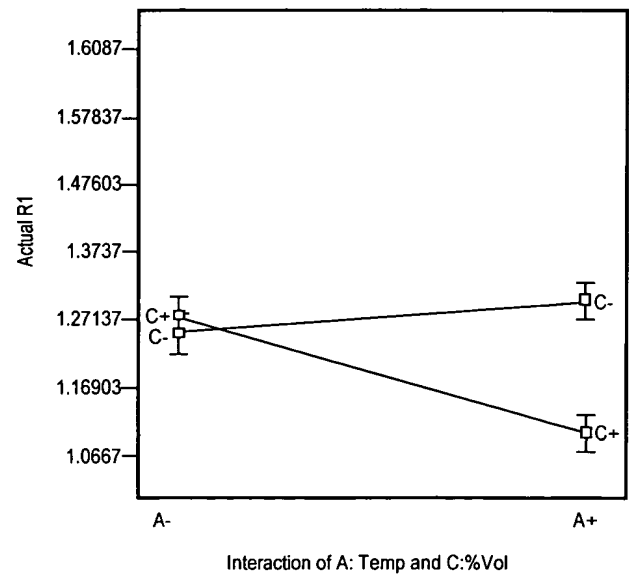


Fig. 13b

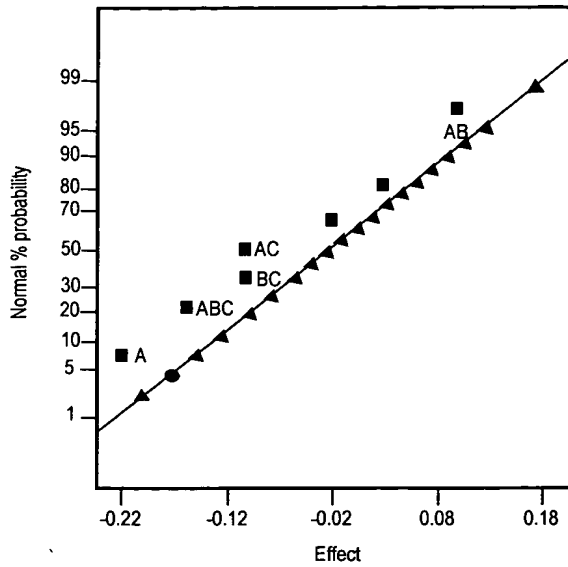


Fig. 14a

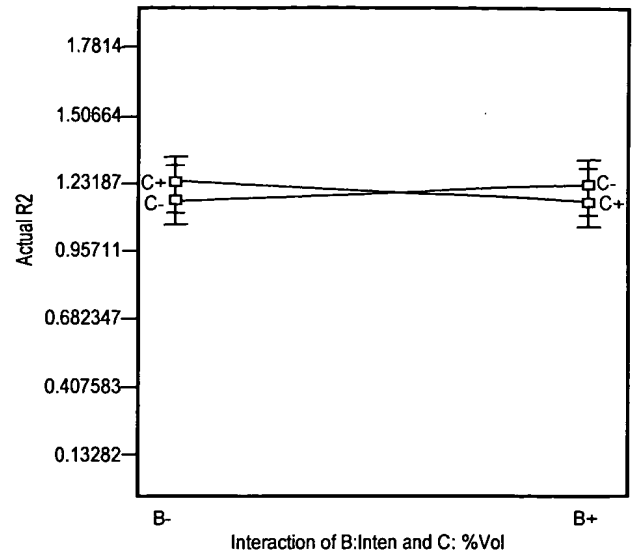


Fig. 14b

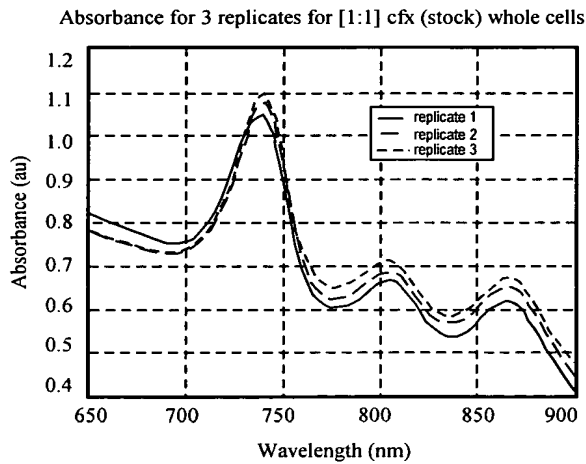


Fig. 15a

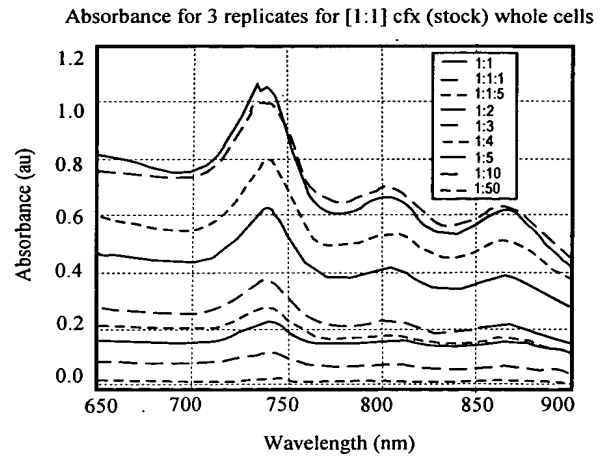


Fig. 15b

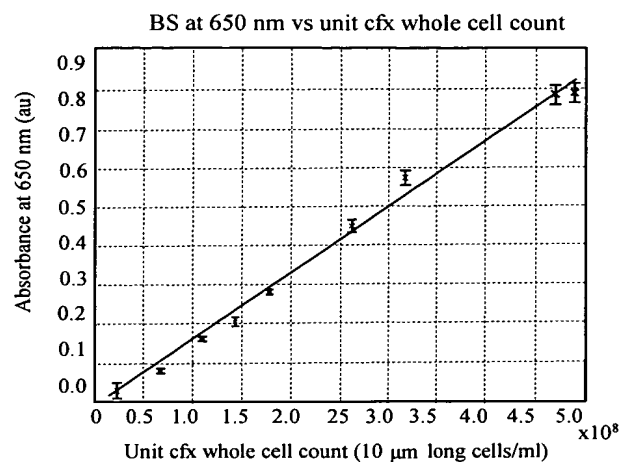


Fig. 16a

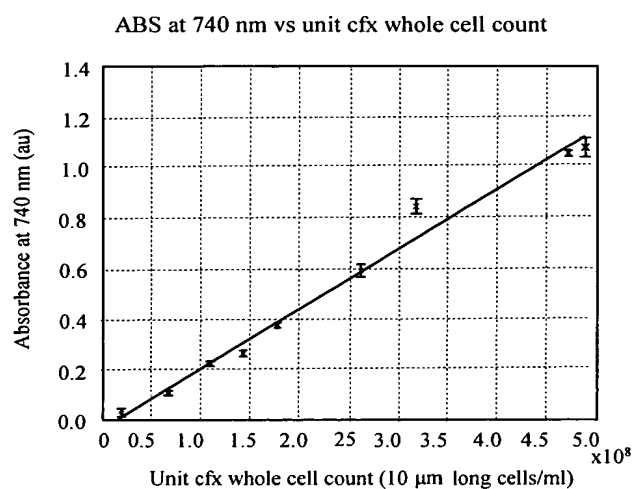


Fig. 16b

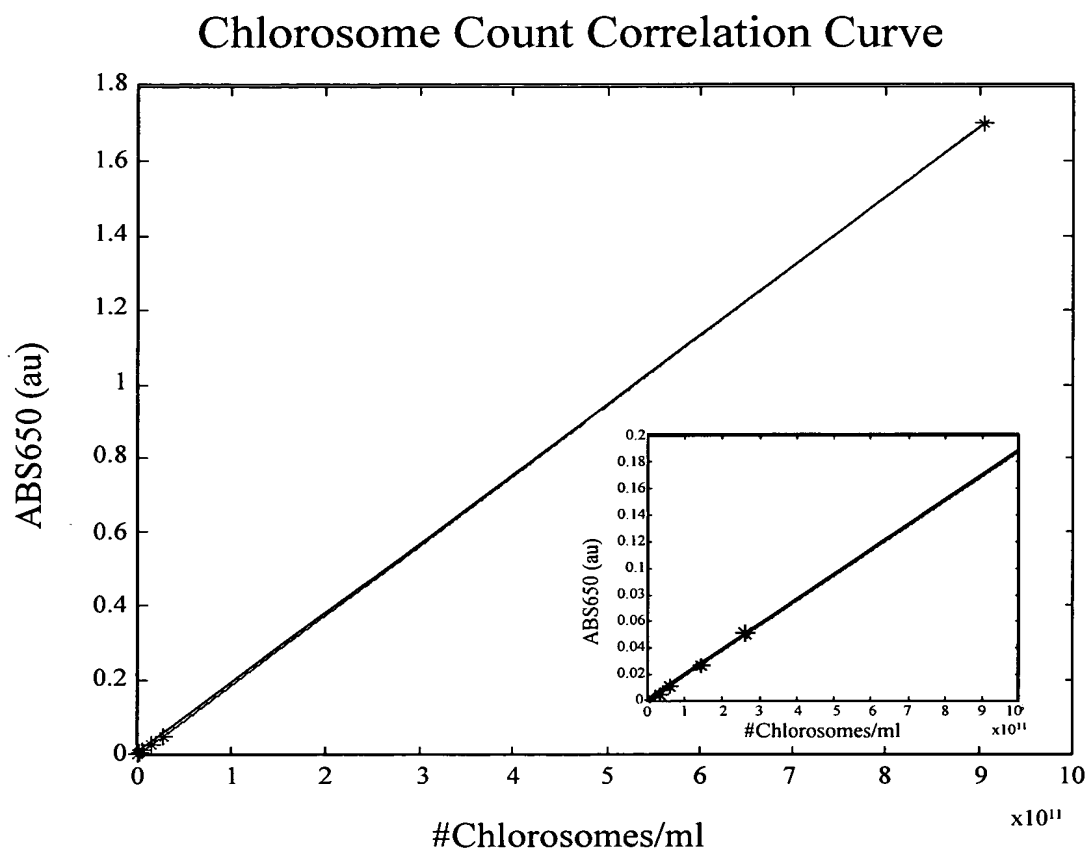


Fig. 17

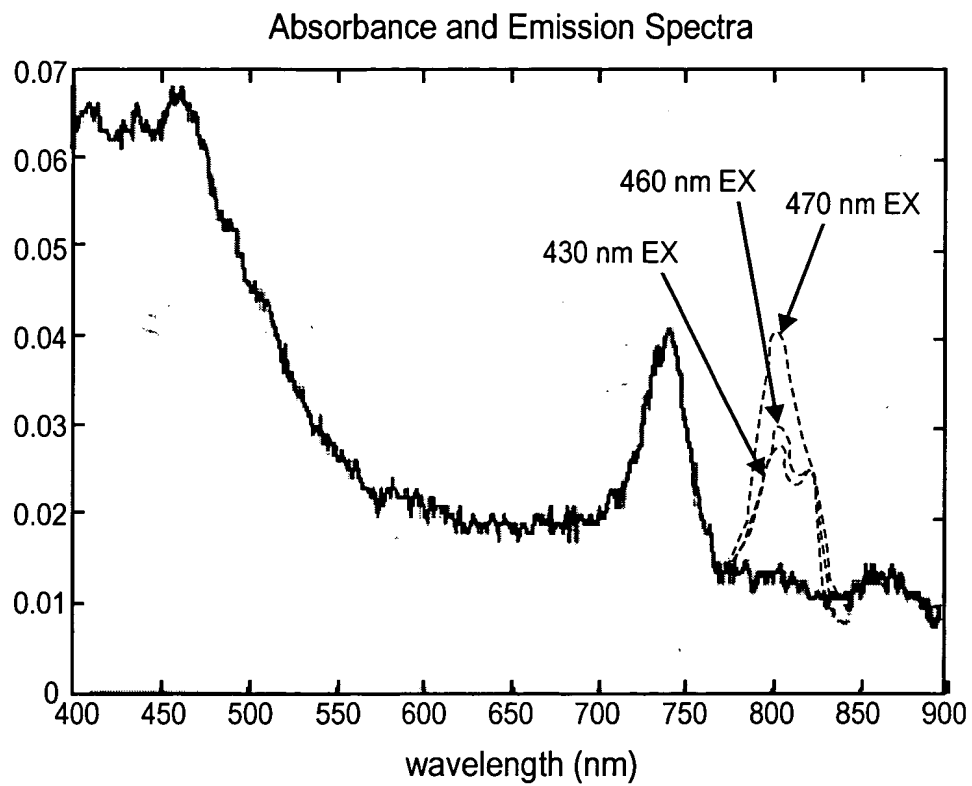


Fig. 18

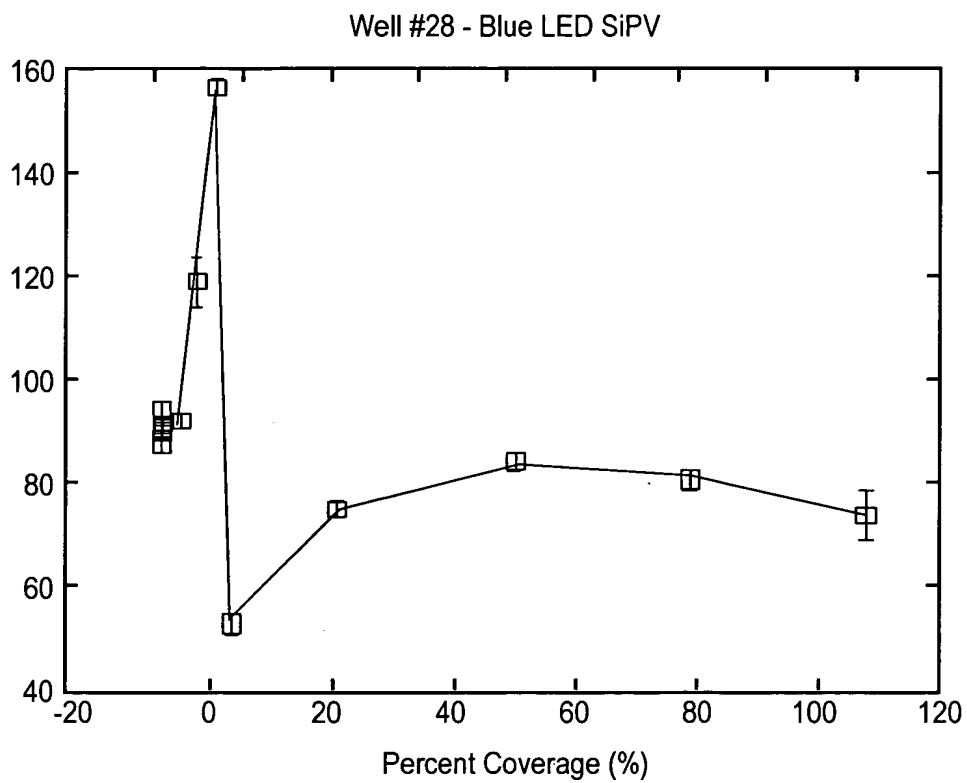


Fig. 19

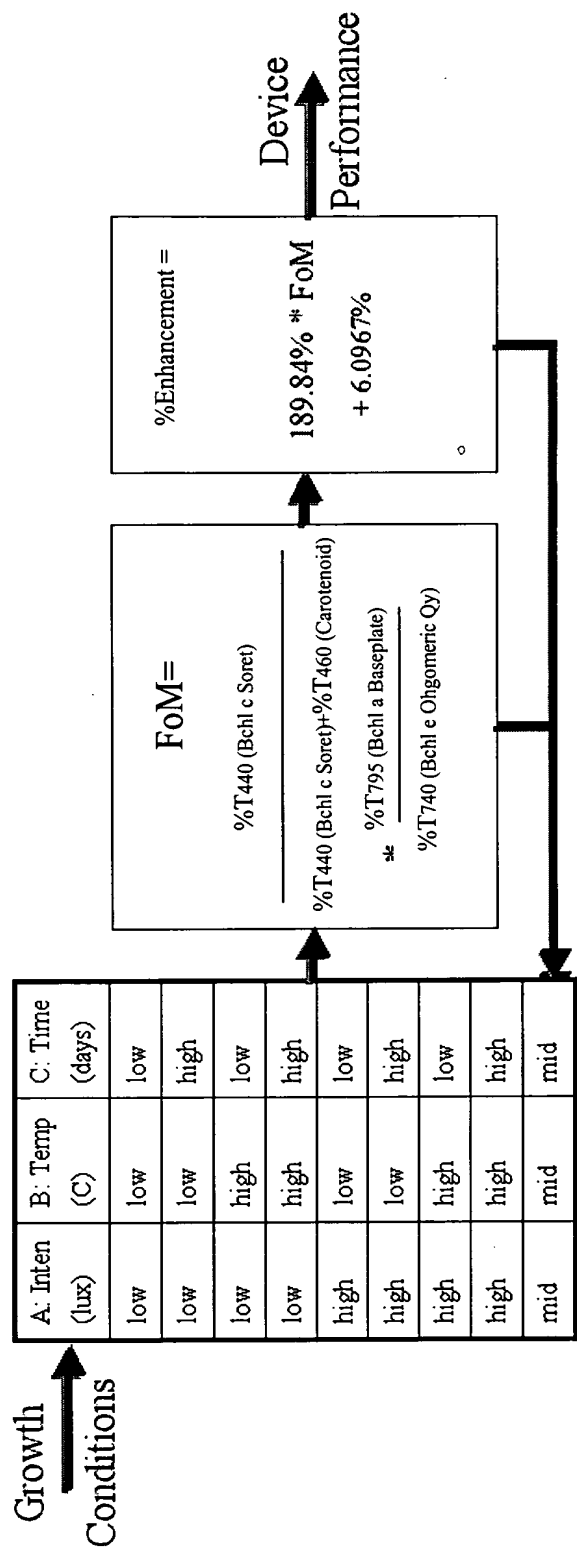


Fig. 20

$$\text{Photonic Figure of Merit} = \frac{\%T_{440} \text{ (Bchl c Soret)}}{\%T_{440} \text{ (Bchl c Soret)} + \%T_{460} \text{ (carotenoid)}} \times \frac{\%T_{795} \text{ (Bchl a Baseplate)}}{\%T_{740} \text{ (Bchl c oligomeric } Q_y\text{)}}$$

Fig. 21a

	%T 795	%T 740	%T 460	%T 440
	Bchl a	Bchl c	carotenoid	Soret
Well 1	0.9625	0.6067	0.6417	0.7034
Well 21	0.9555	0.8044	0.5703	0.5985
Well 22	0.9502	0.7948	0.565	0.5908
Well 23	0.9553	0.8997	0.8599	0.8671
Well 24	0.9569	0.9237	0.8731	0.8736
Well 26	0.9566	0.8732	0.7793	0.7895
Well 28	0.9541	0.6126	0.6421	0.7161

Fig. 21b

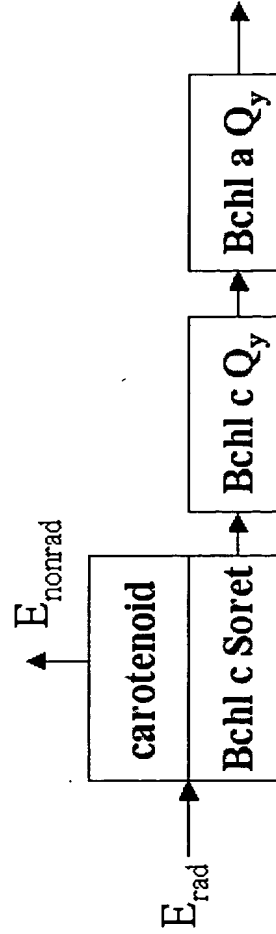


Fig. 21c

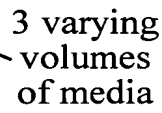


Fig. 22



Fig. 23